BCA-103

B.C.A. First Year Examination, 2017

Paper-III

(Problem Solving Through C Programming)

Time Allowed: Three Hours

Maximum Marks: 100

PART-A (खण्ड-अ) Marks: 20

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART-B (खण्ड-ৰ) Marks: 50

Answer five questions (250 words each), selecting one from each Unit. All questions carry equal marks.

प्रत्येक इकाई में से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART-C (खण्ड-स) [Marks: 30

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो। सभी प्रश्नों के अंक समान हैं।

PART-A

- 1. Answer the following questions:
 - (i) Define Algorithm.
 - (ii) What is meant by Syntax error?
 - (iii) Differentiate between constant and variables.
 - (iv) Where the bit wise operators are used?
 - (v) Differentiate between Break and Continue statement.
 - (vi) Define control variable.
 - (vii) What is meant by Scope of a function?
 - (viii) Differentiate between Local and Global variables.
 - (ix) What is the use of Static variables?
 - (x) Define Arrays. $10\times2=20$

PART-B

UNIT-I

2.	What	is	meant	by	algori	thm?	Di	scuss	the
	proper	ties	of algor	ithm	. Also	write	on	algori	thm
	to find the area of a triangle.						10		

What is Flow chart? Draw a Flow chart to find the 3. highest number among N natural number. 10

UNIT-II

- 4 Discuss the keywords and data types in C. 10
- 5. Explain a brief overview of Basics of C Language. 10

UNIT-III

- What is meant by while Loop? Write a program to 6. print First N prime numbers. 10
- Explain the working of switch case with a 7. example. 10

UNIT-IV

- 8. What is meant by Function? Why function is needed? Discuss the various categories of function with respect to parameter passing. 10
- 9. Write a C program using function to find the lowest number among an array having N elements. 10

UNIT-V

- 10. Explain various file handling operations with example.10
- 11. Write a program in C to compute the multiplication of two matrix of M by N order.

PART-C

- 12. (a) Write a note on various Flow chart symbols.
 - (b) Discuss different kinds of error. 10+5=15
- 13. Explain different kinds of operators in C. 15
- 14. (a) Explain the working of For Control structure with example.
 - (b) How the do-while is different than while? Explain with example. 8+7=15
- 15. Write short notes on the following:
 - (i) Call by value and call by reference.
 - (ii) Recursive Functions.
 - (iii) Actual and Formal Parameters. 5+5+5=15
- 16. (a) Explain structure handling with example.
 - (b) Discuss various kinds of variables. 10+5=15